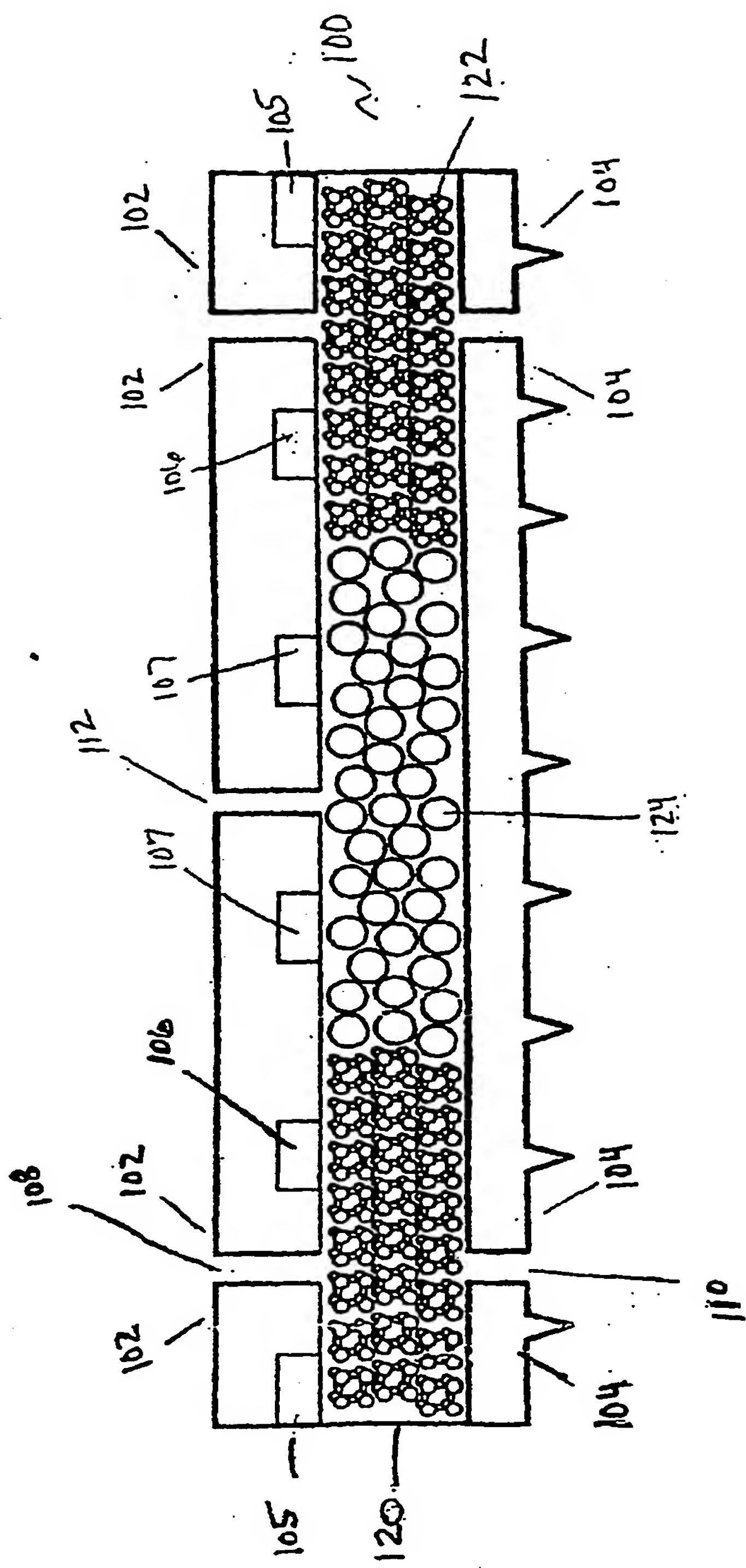


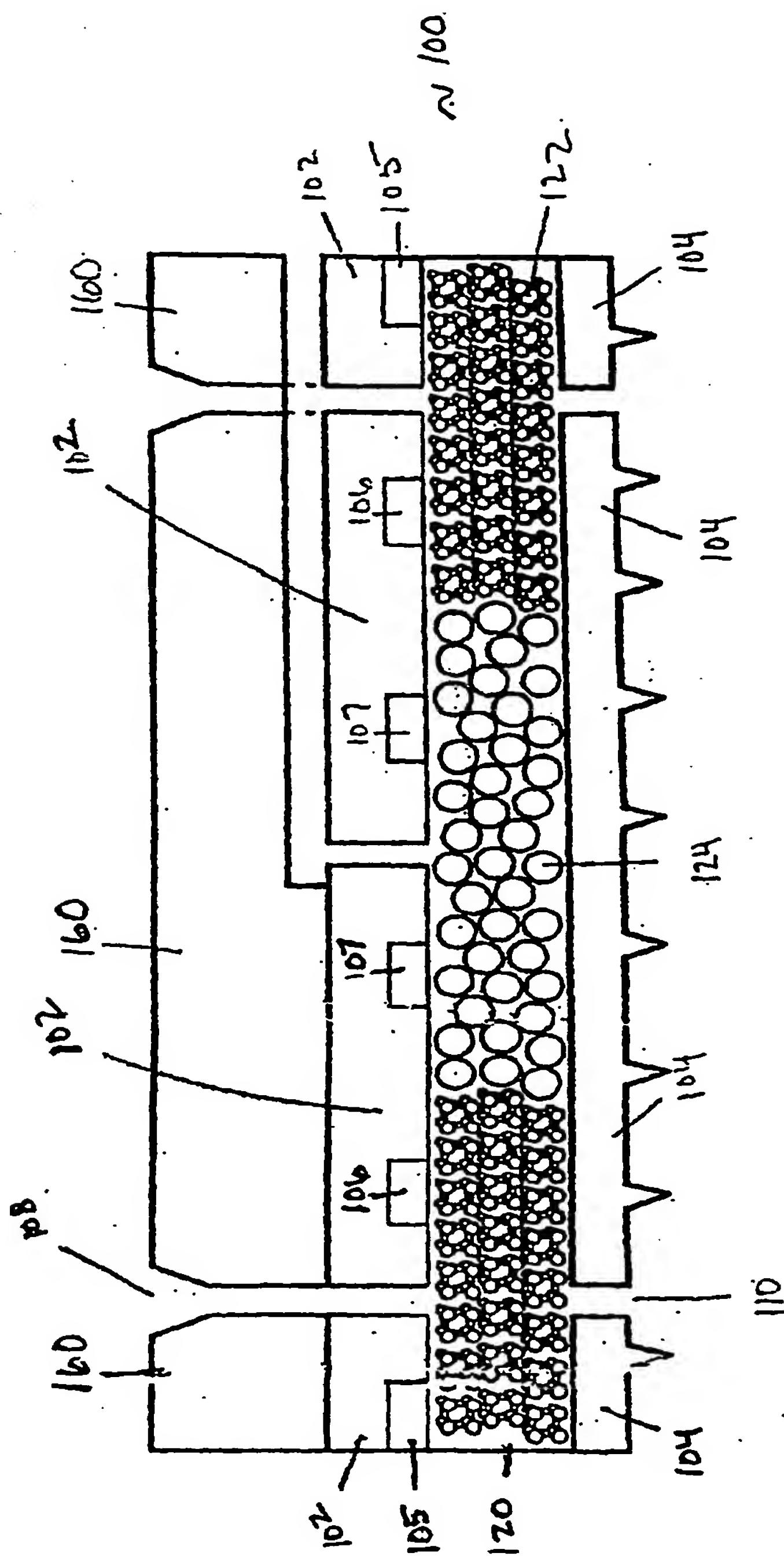
## FIGURE 1A



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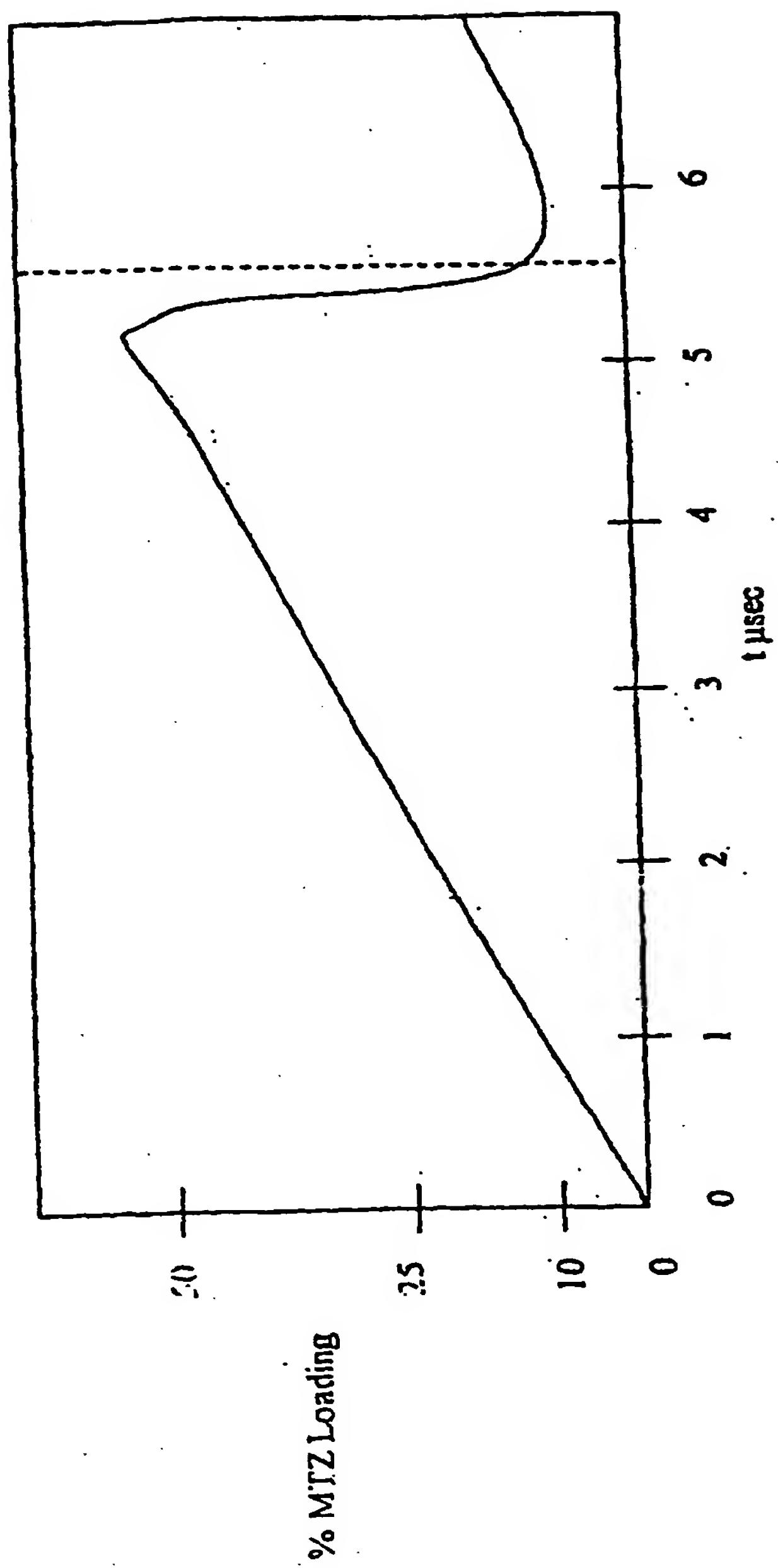
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FIGURE 1B



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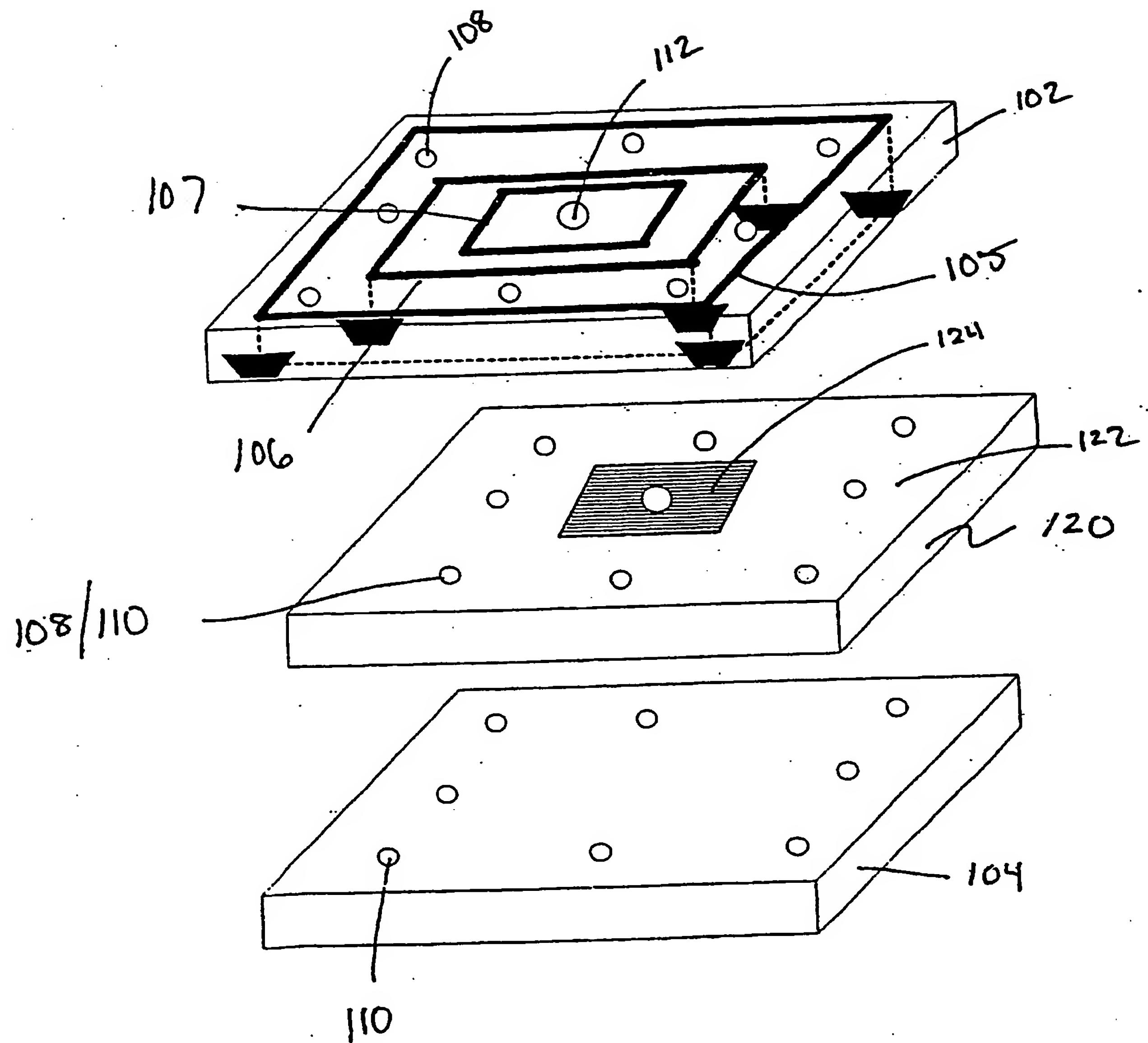
FIGURE 1C



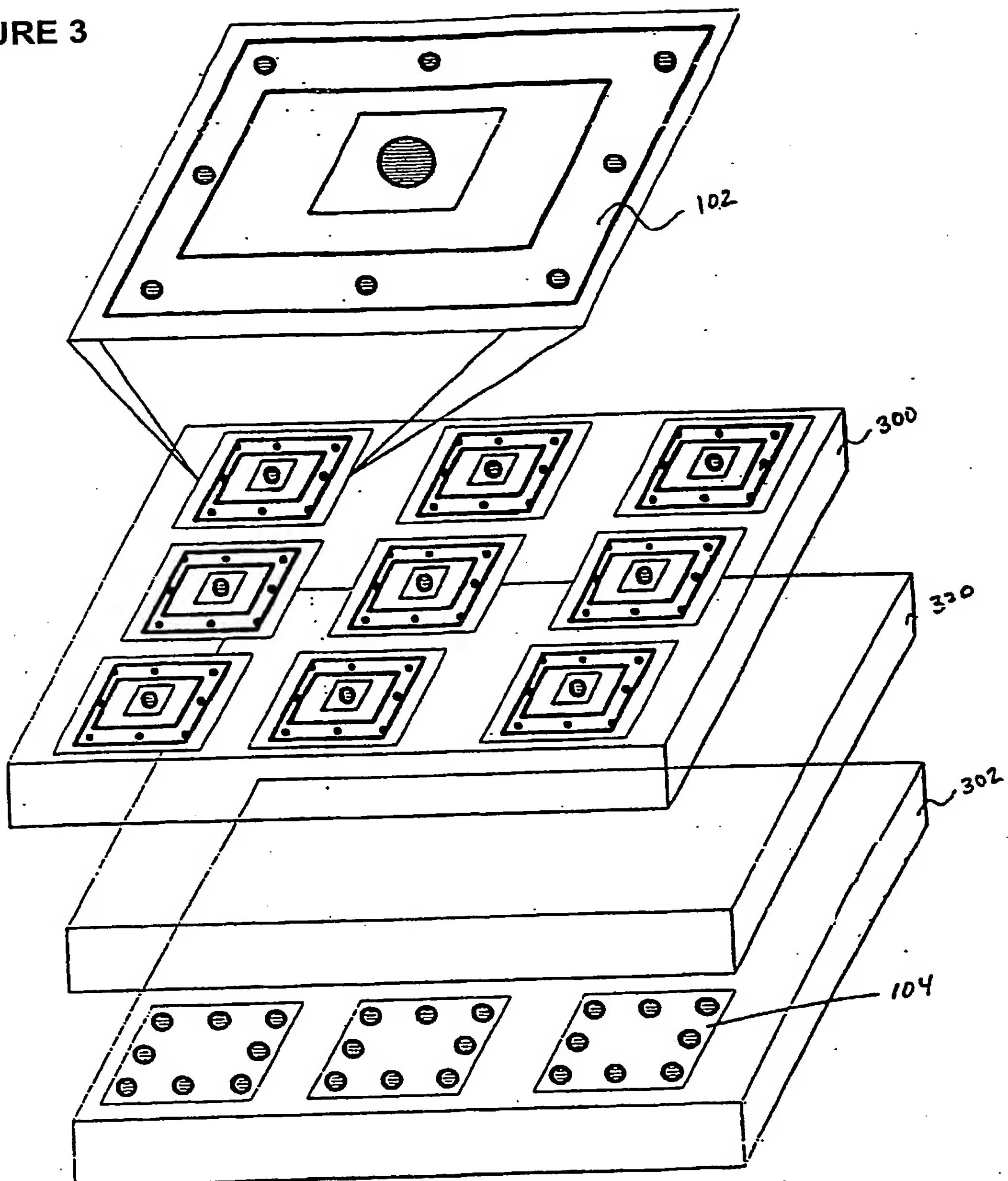
The process is referred to as continuous because it does not cycle between vessels, but, obviously, has periodicity.

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FIGURE 2

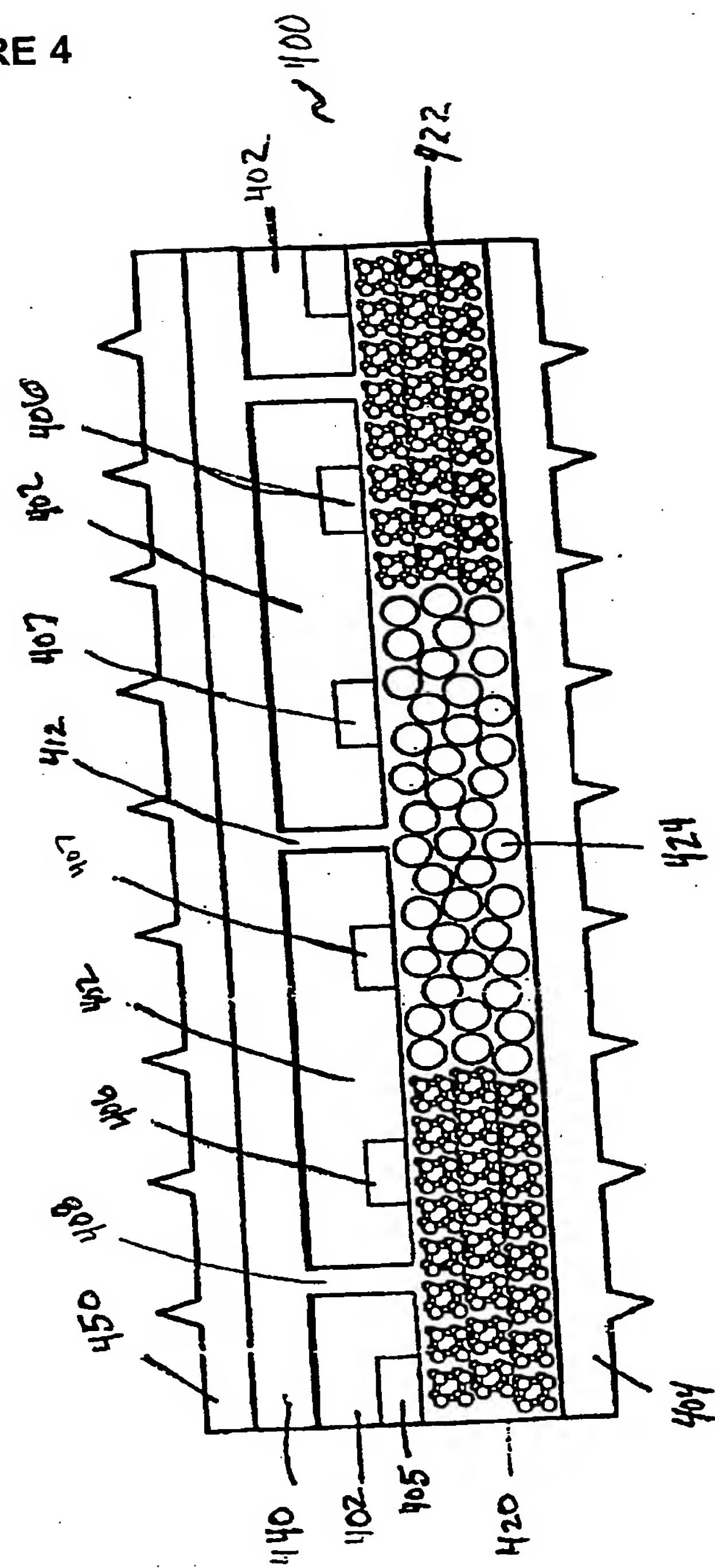


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**FIGURE 3**

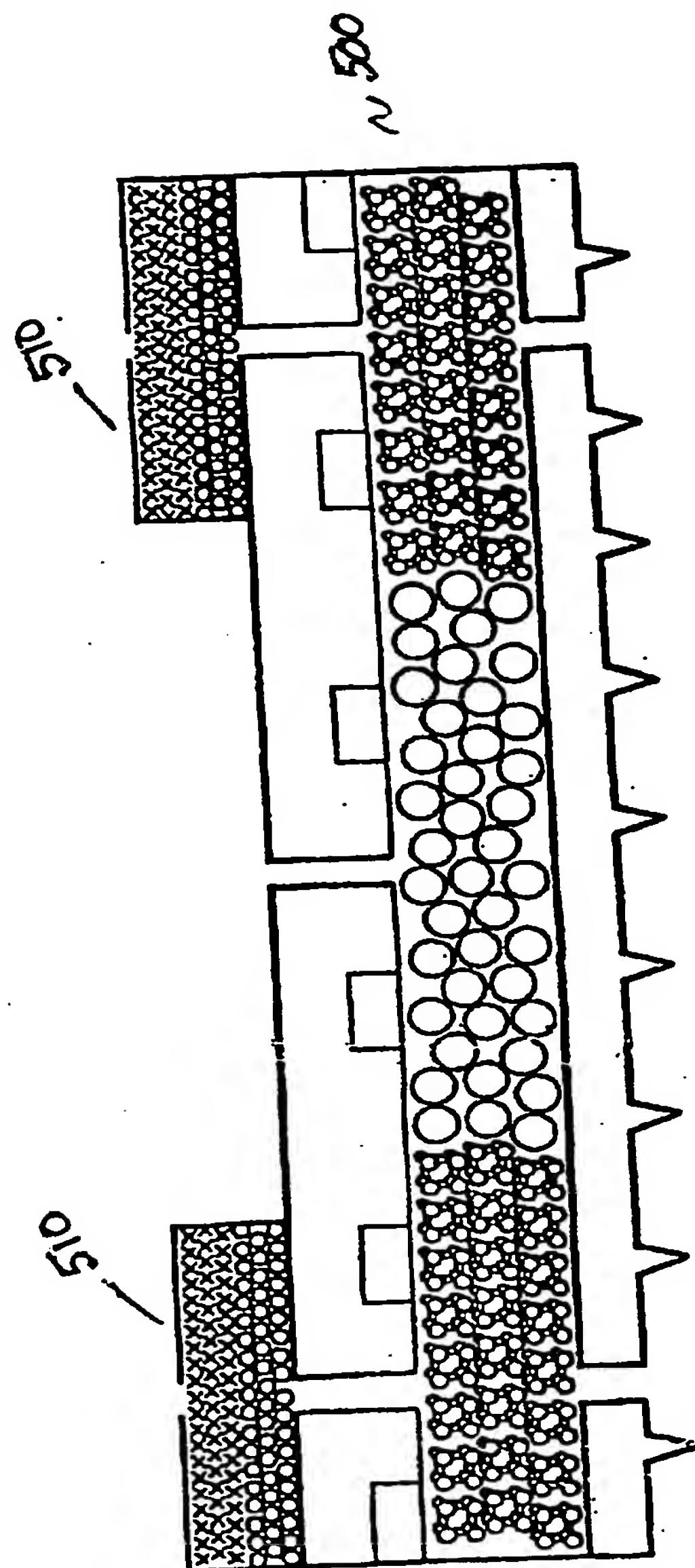
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## FIGURE 4

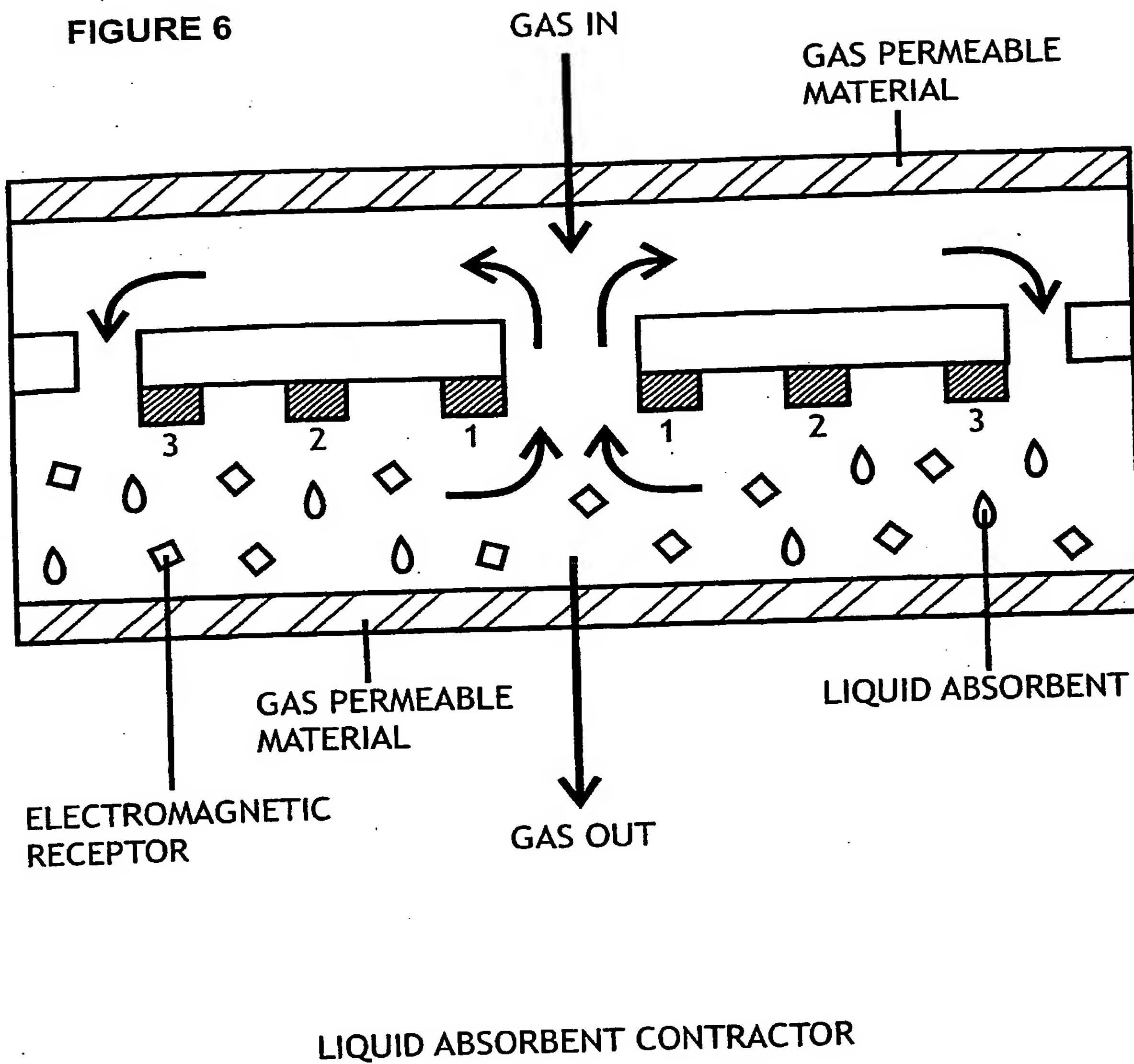


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## FIGURE 5



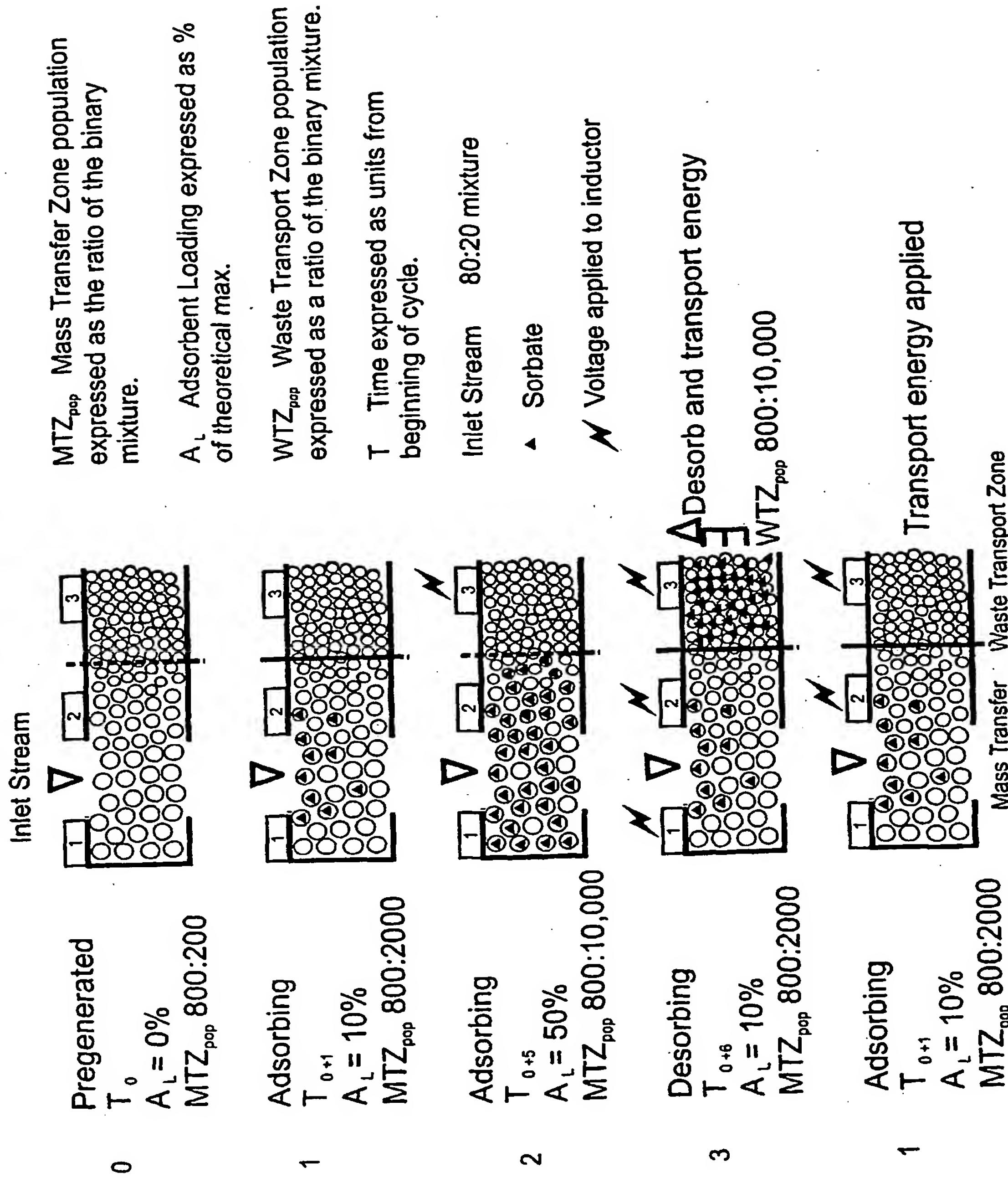
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**FIGURE 6**

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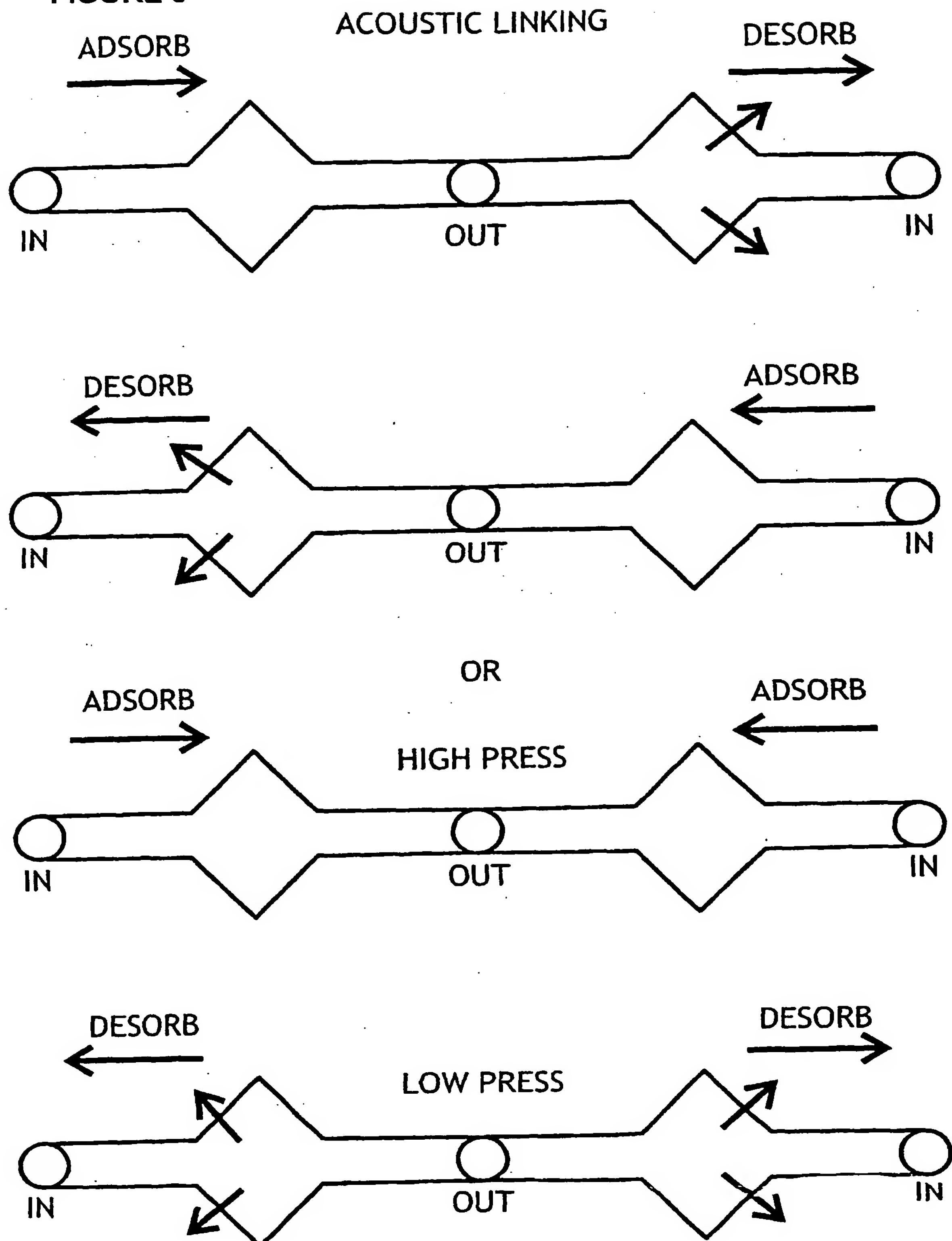
FIGURE 7

## Continuous Adsorption Steps



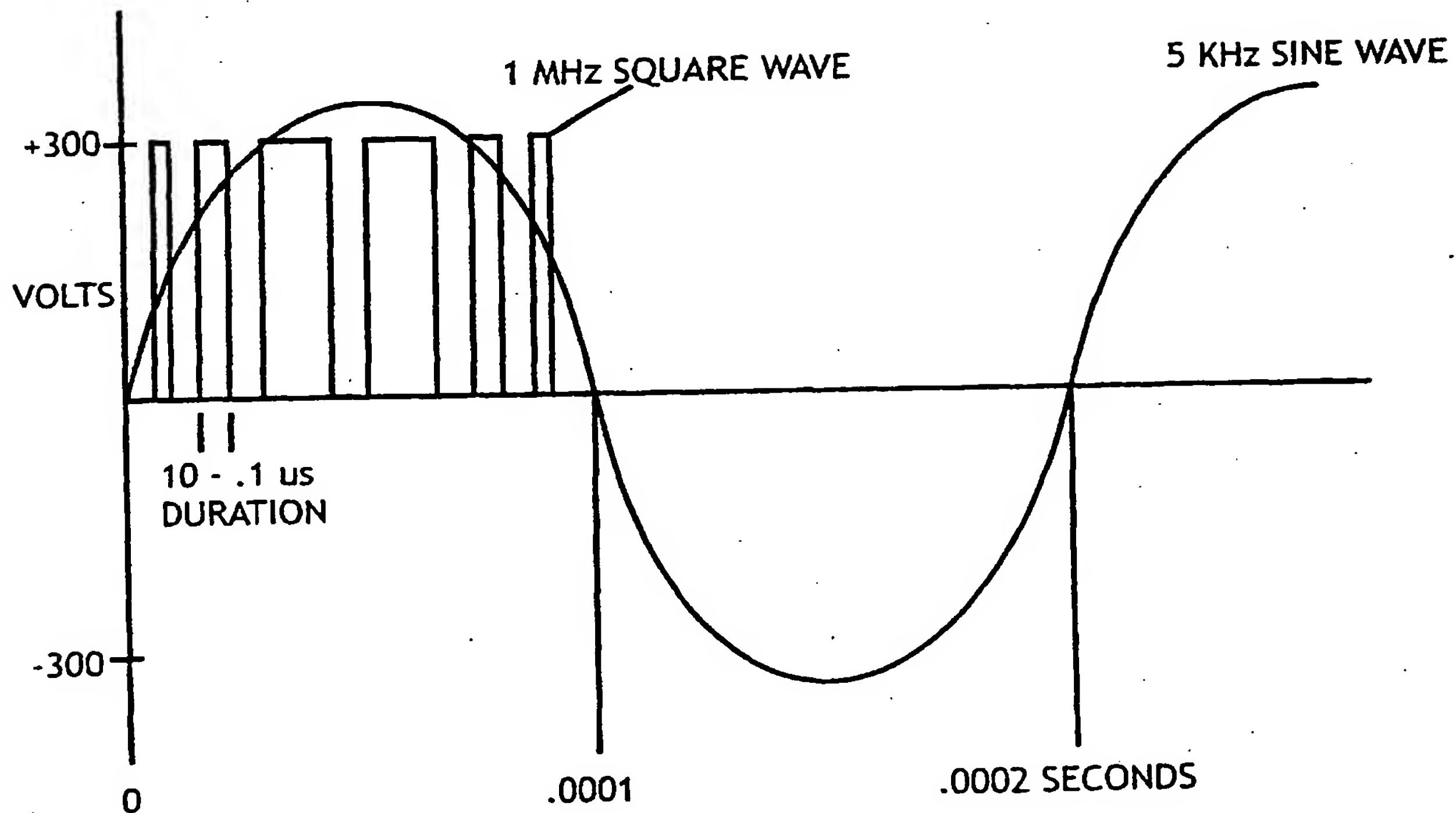
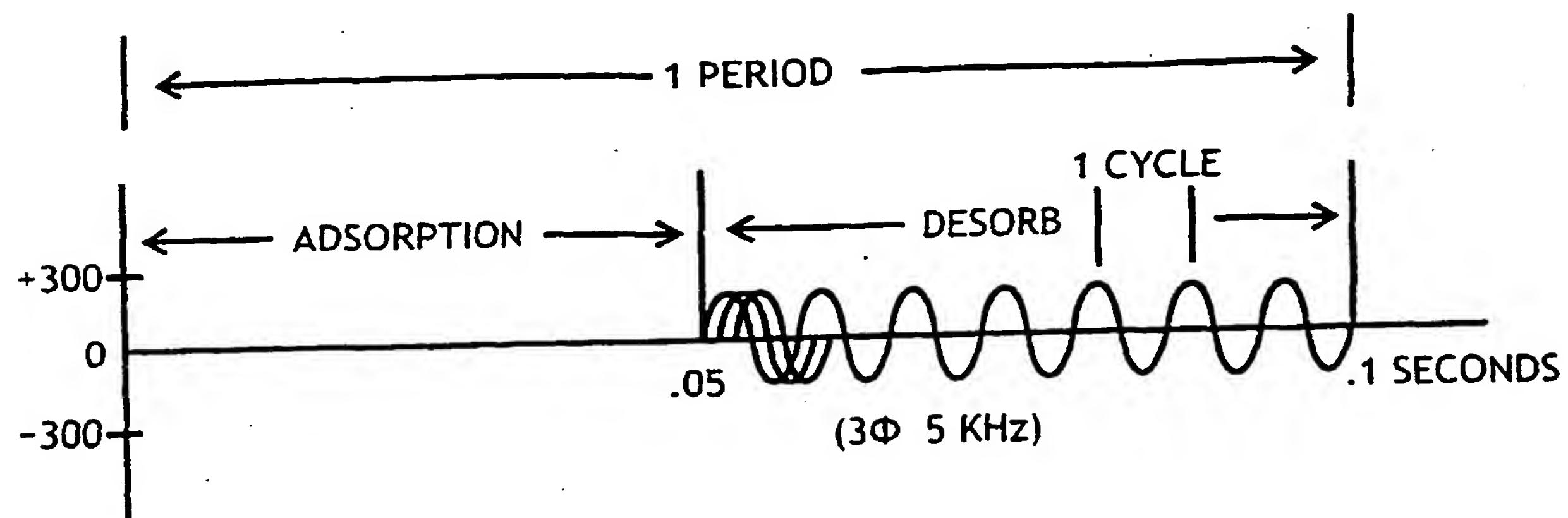
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FIGURE 8



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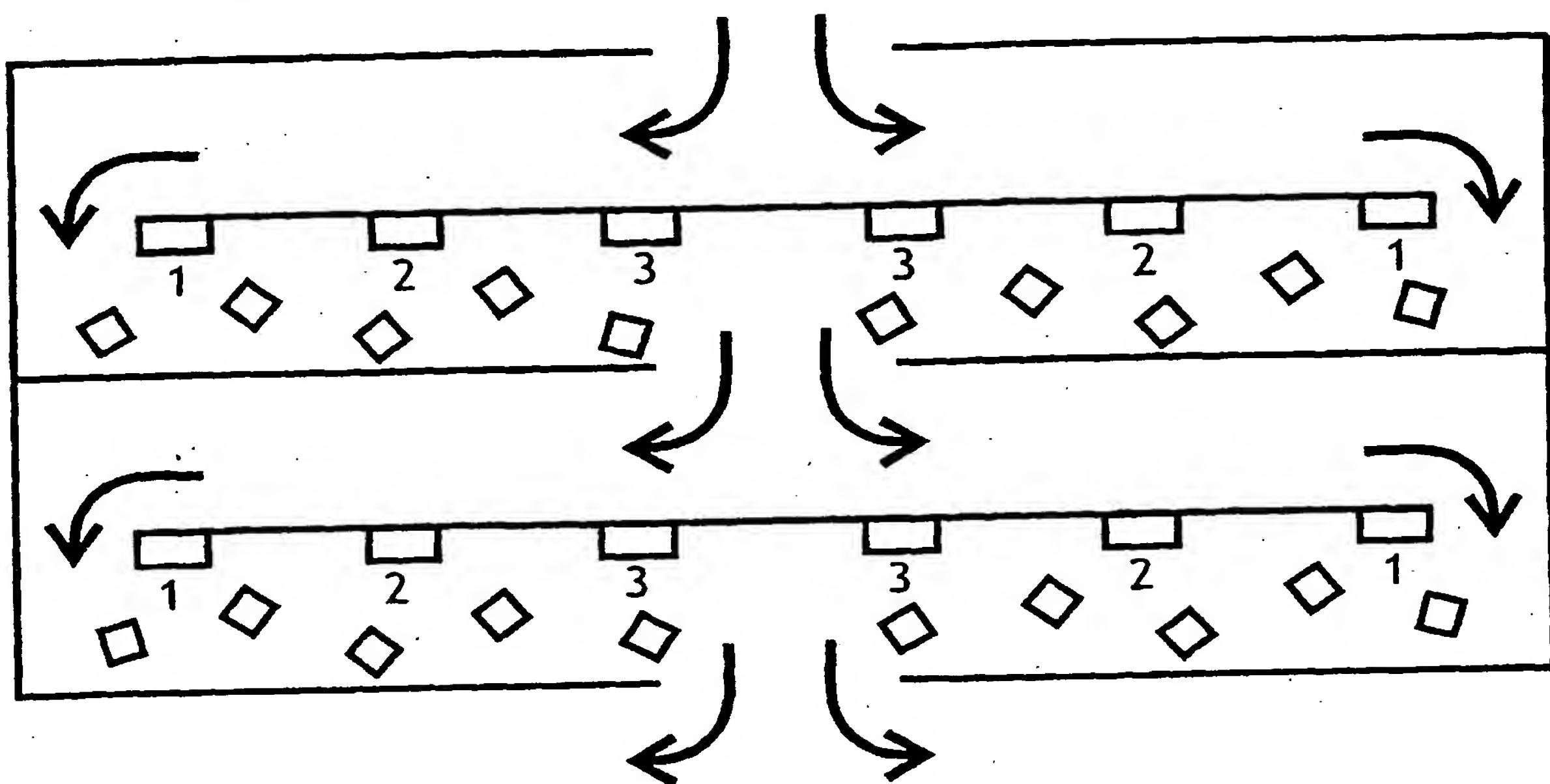
FIGURE 9



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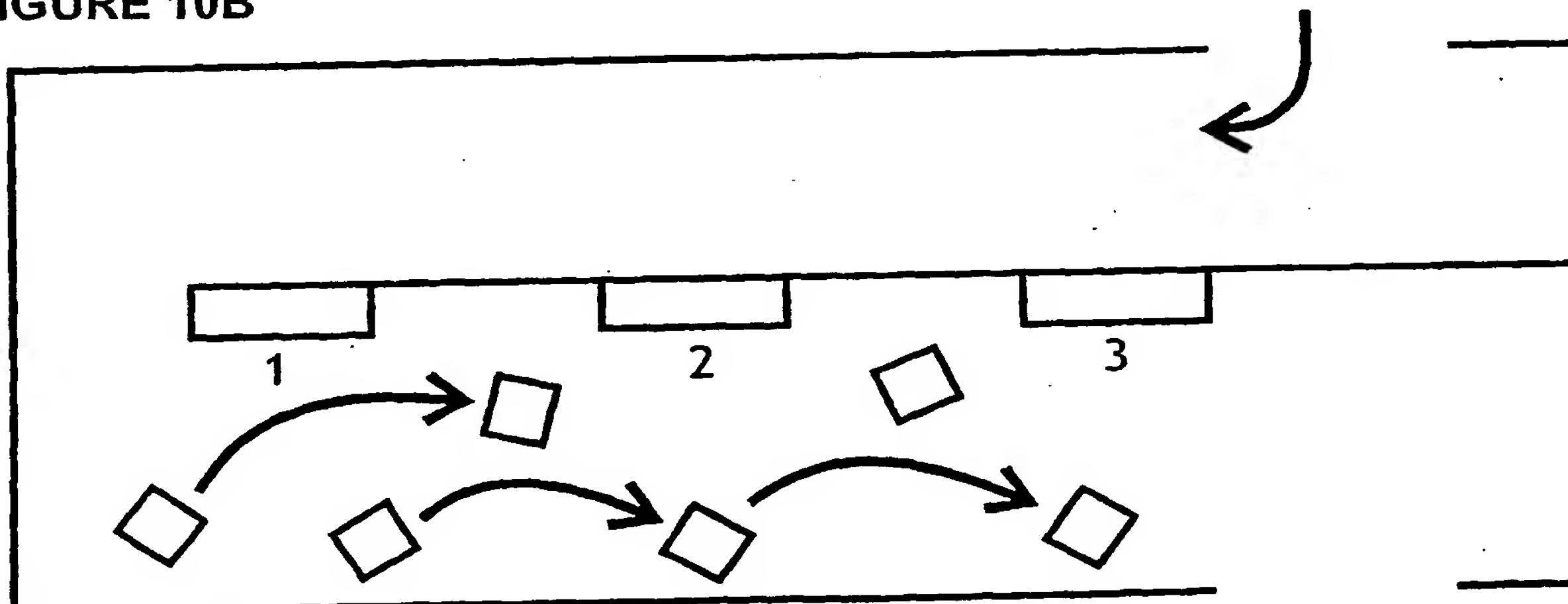
## CASCADED VACUUM PUMP

FIGURE 10A



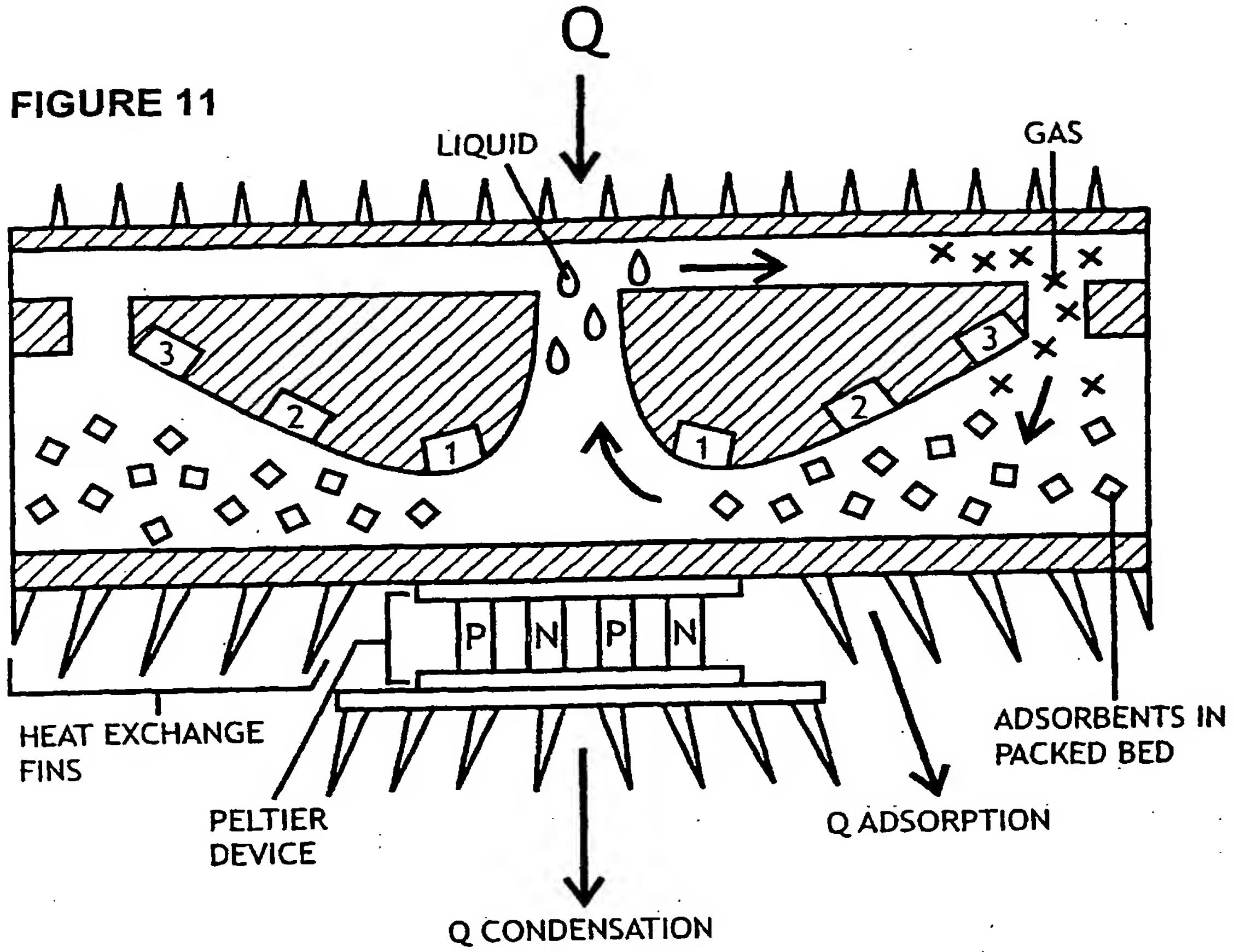
## DESORPTION - ADSORPTION SITE HOPPING PHENOMENON

FIGURE 10B



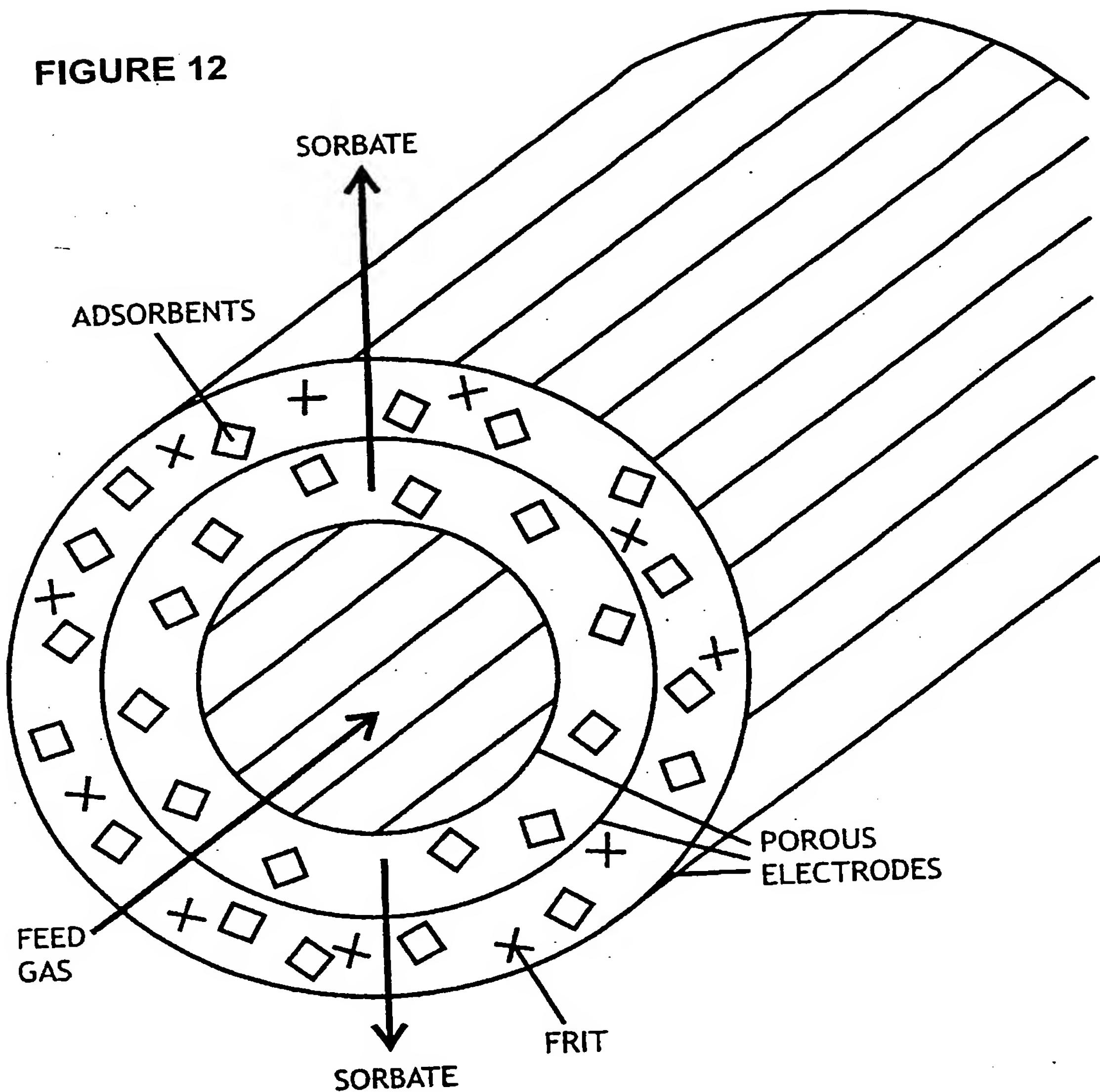
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FIGURE 11



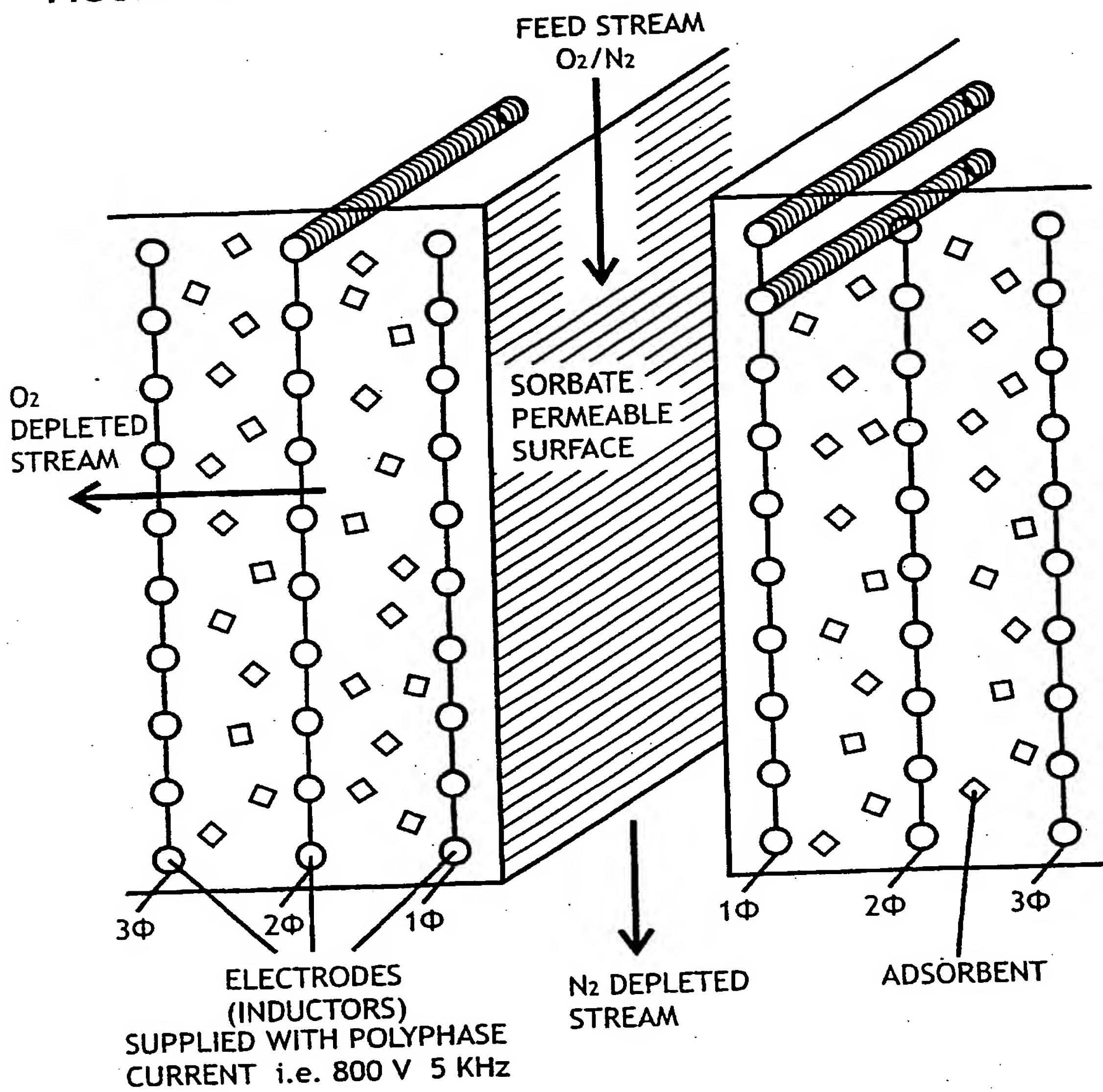
THERMOELECTRIC ASSISTED HEAT PUMP

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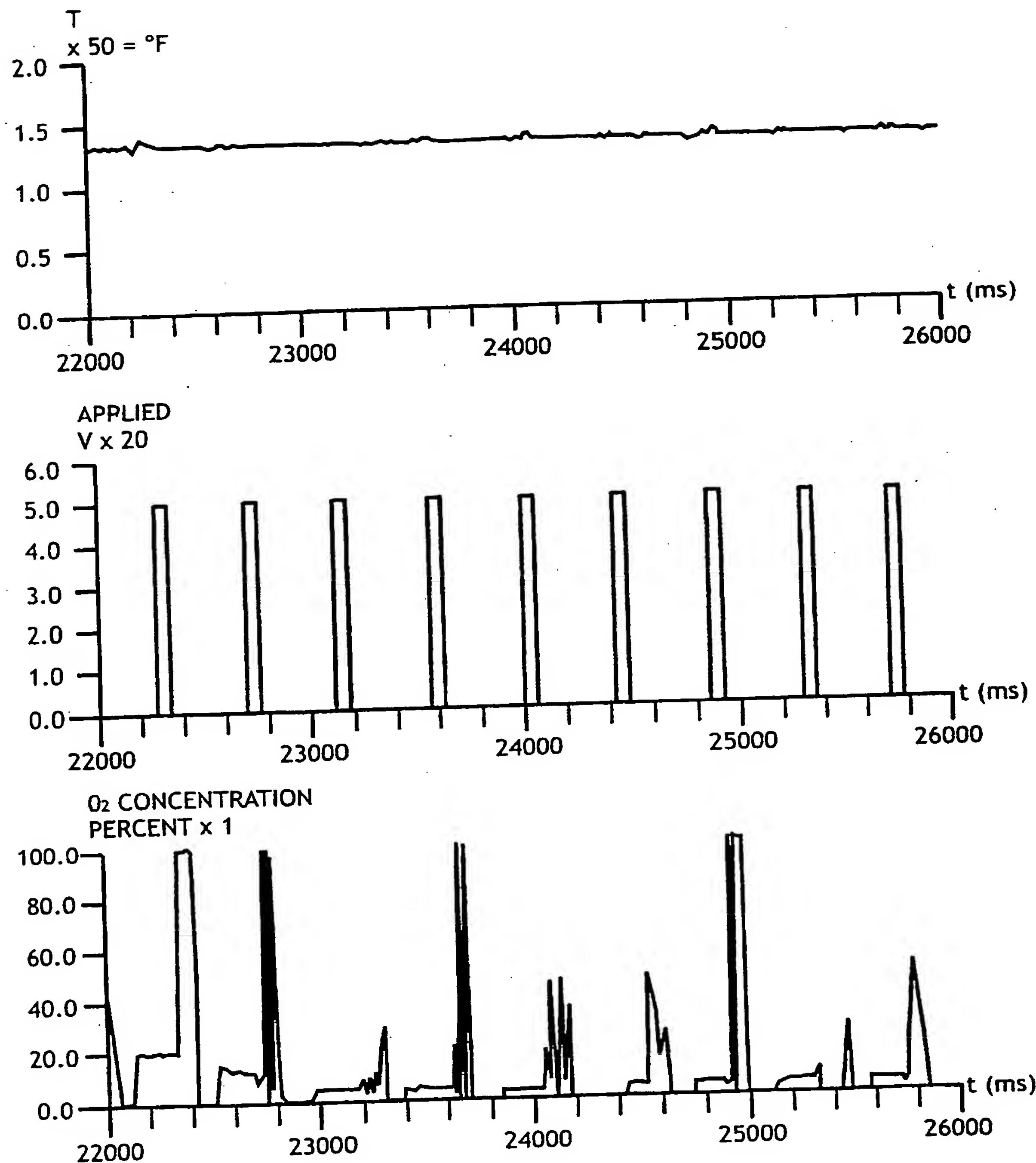
**FIGURE 12****ELECTRO KINETICALLY ASSISTED SORPTION MEMBRANE**

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FIGURE 13



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**FIGURE 14**

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## PIEZO VALVE

FIGURE 15A

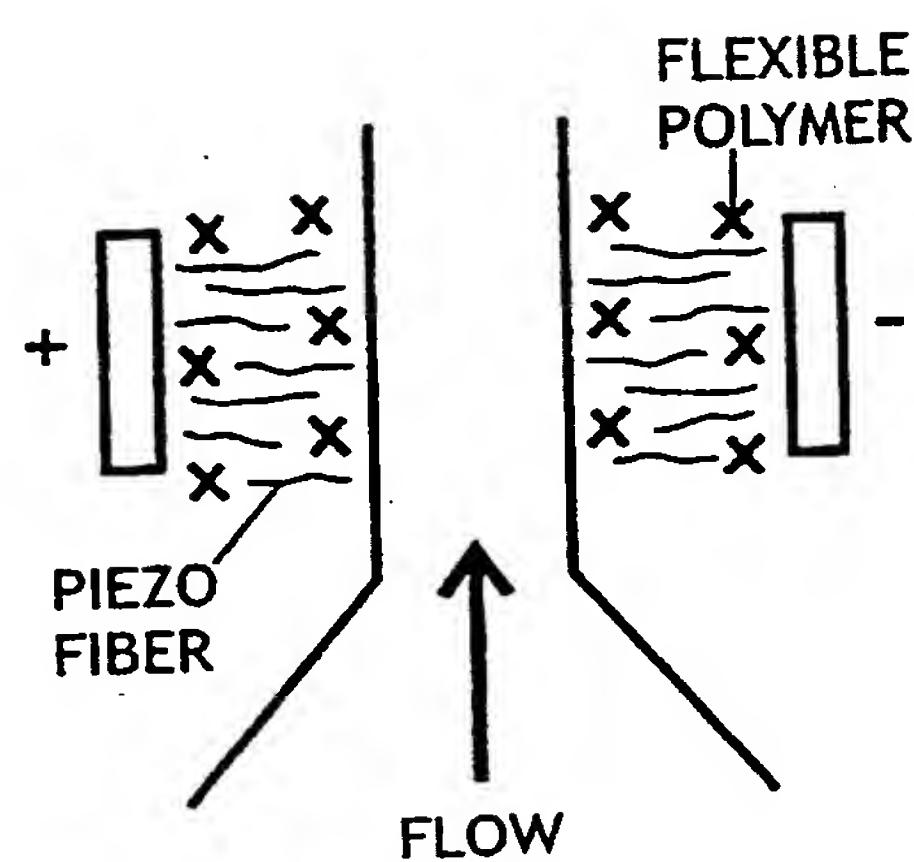
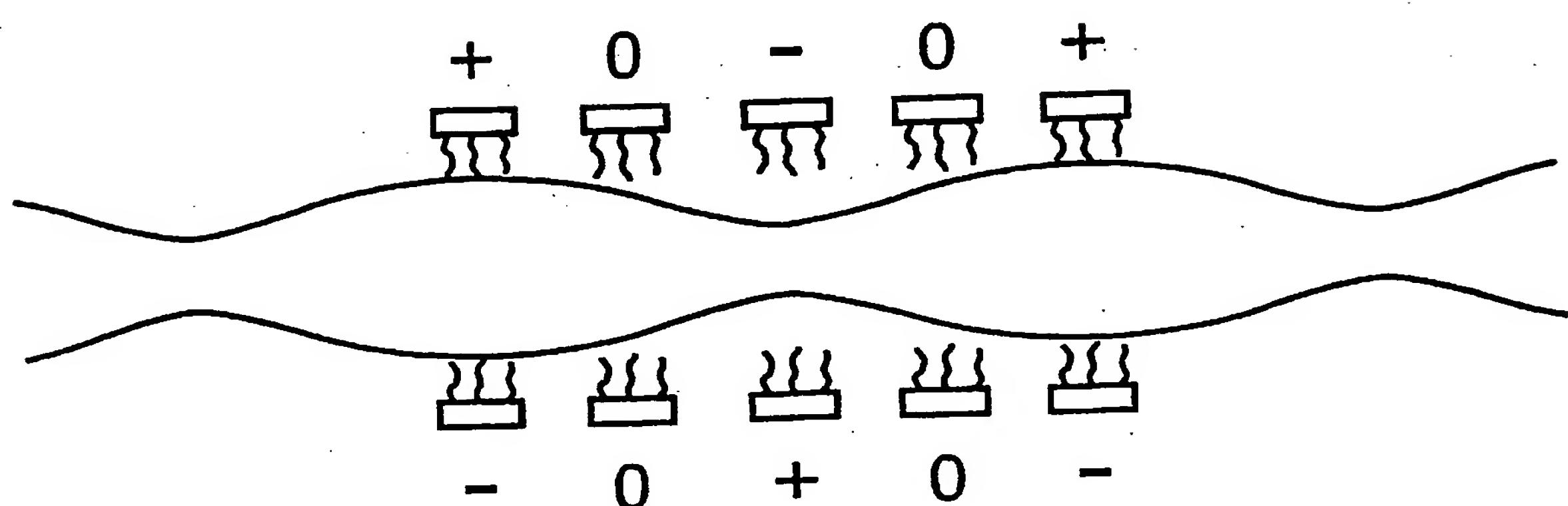
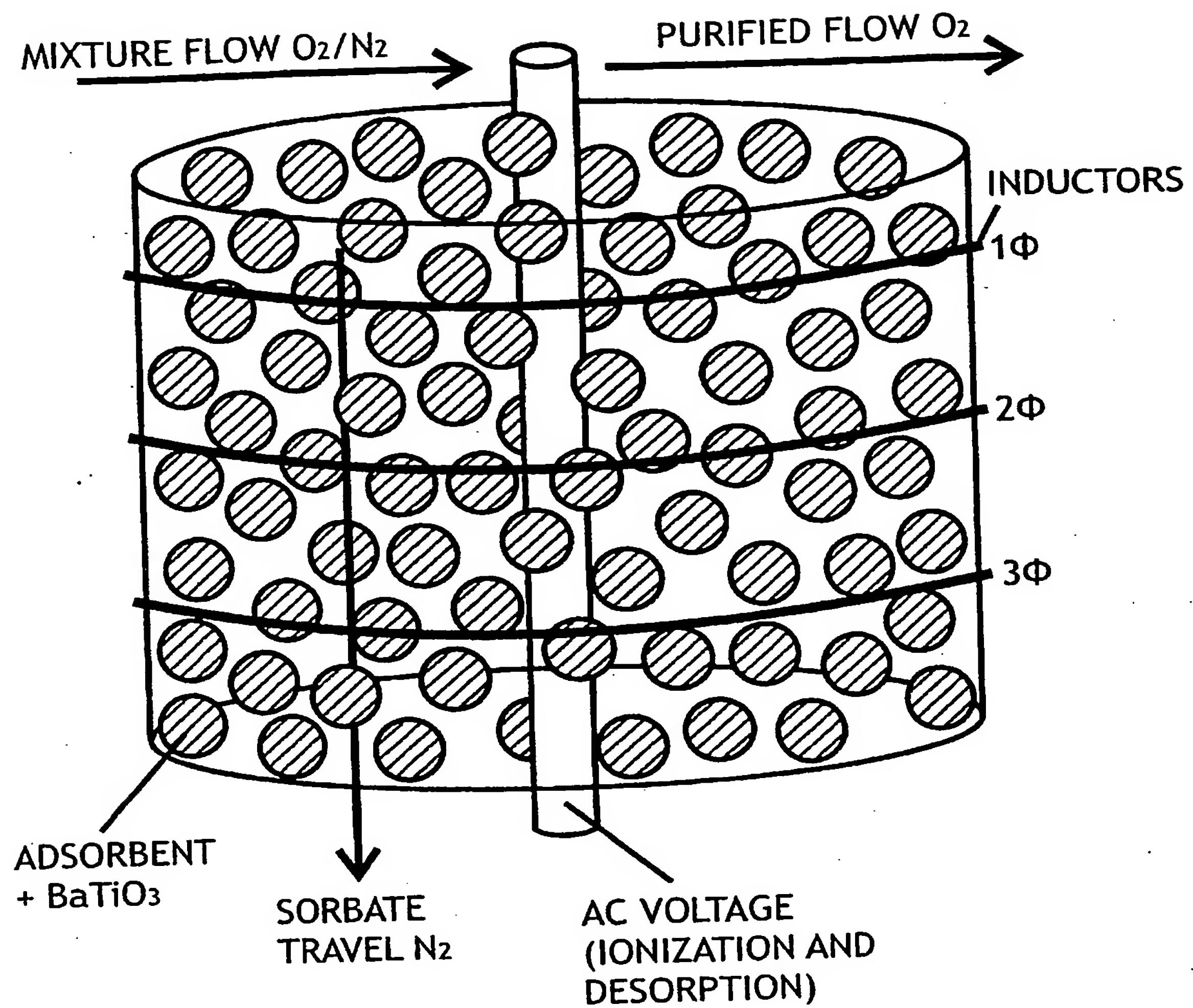


FIGURE 15B

## 3 PHASE PIEZO PUMP

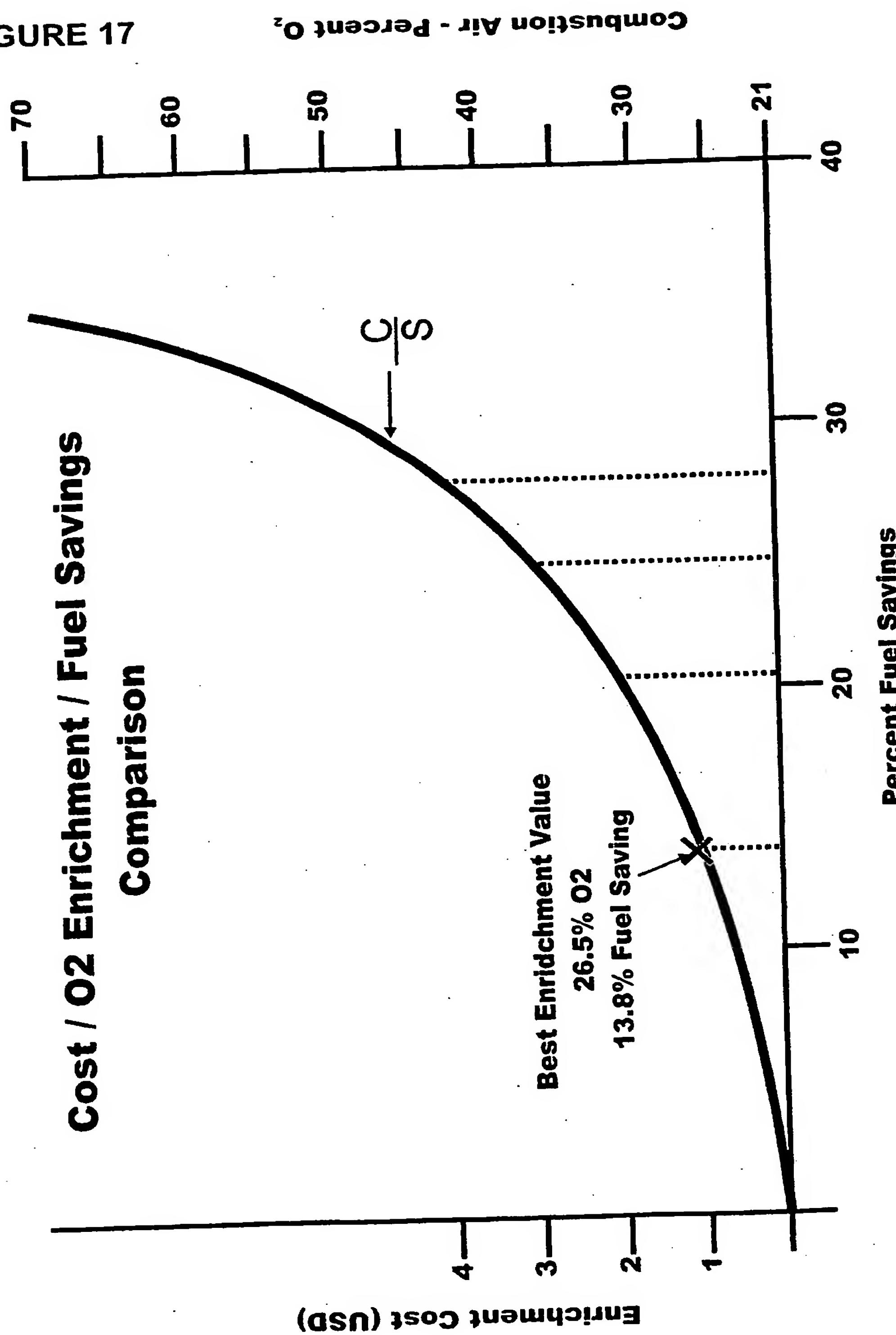


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**FIGURE 16**

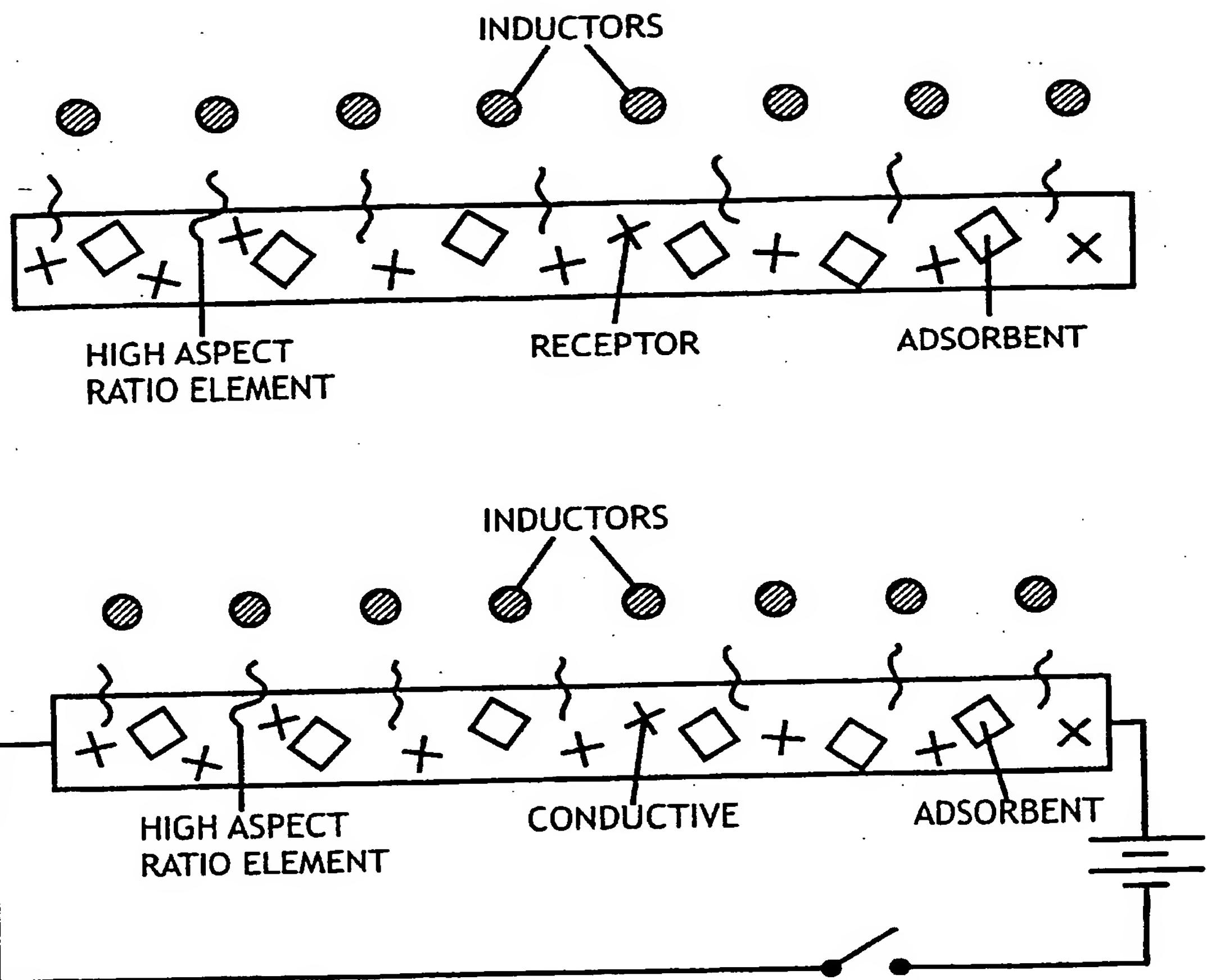
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FIGURE 17



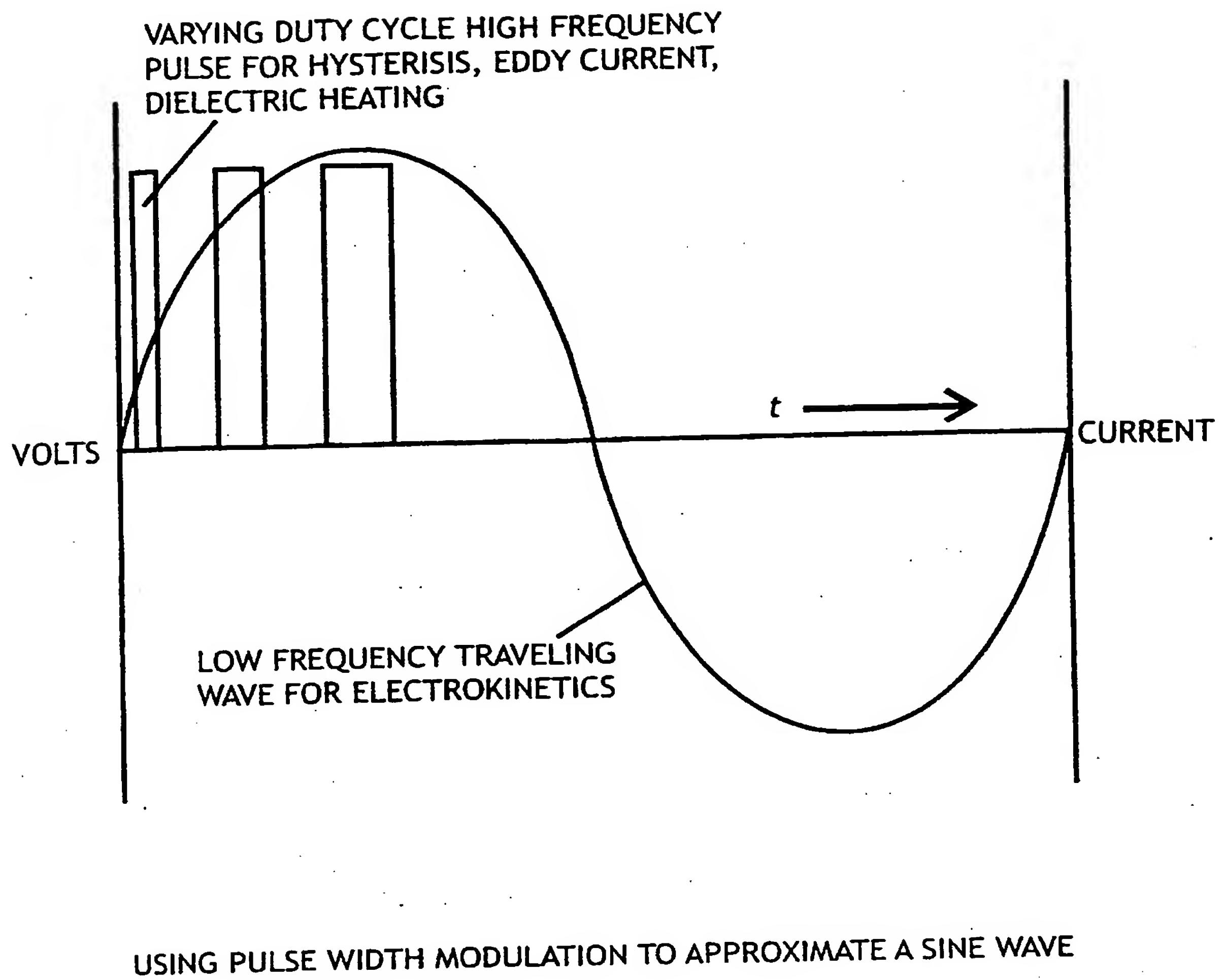
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FIGURE 18

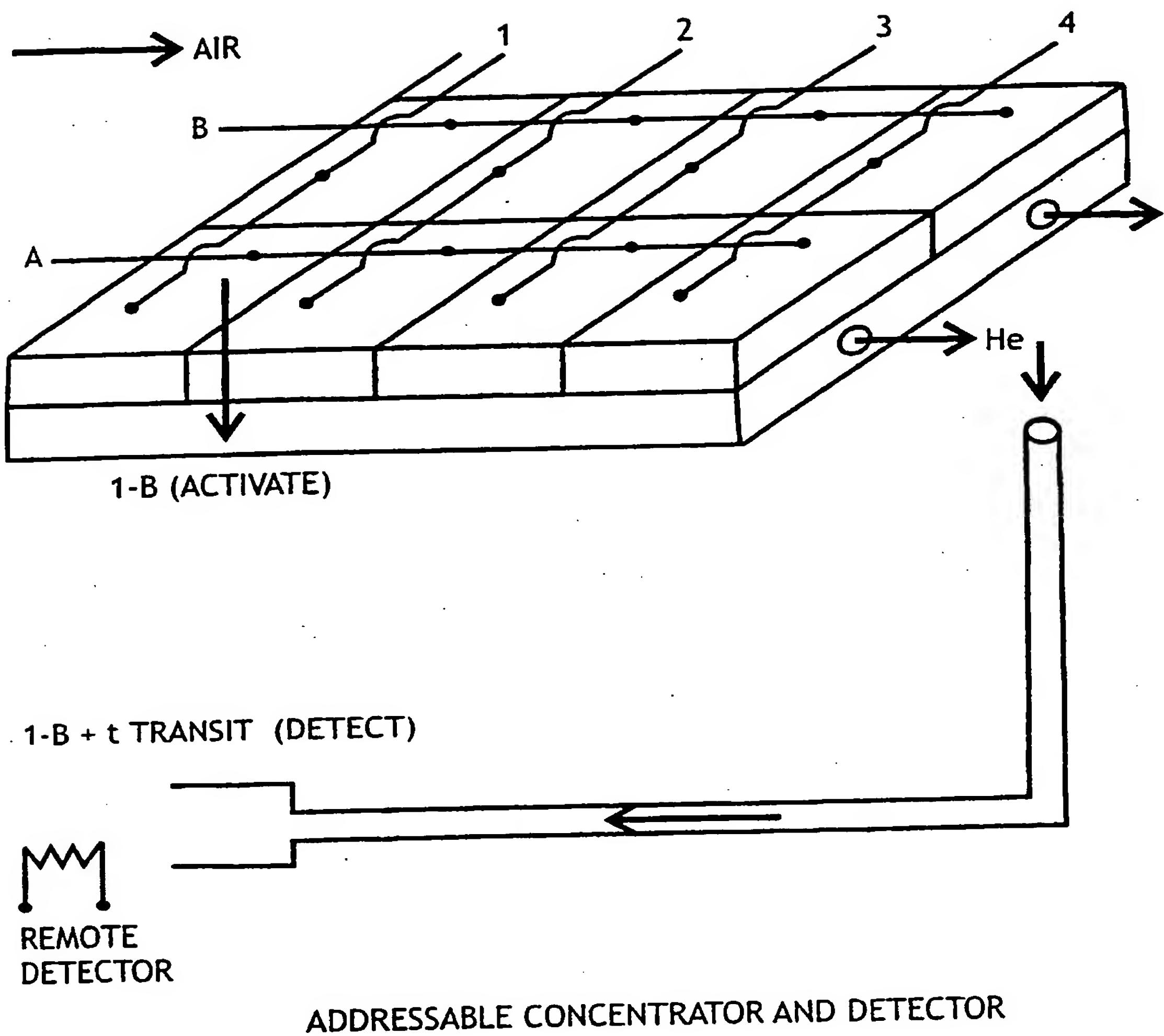


HIGH ASPECT RATIO ELEMENTS AS FIELD CONCENTRATORS FOR IONIZATION

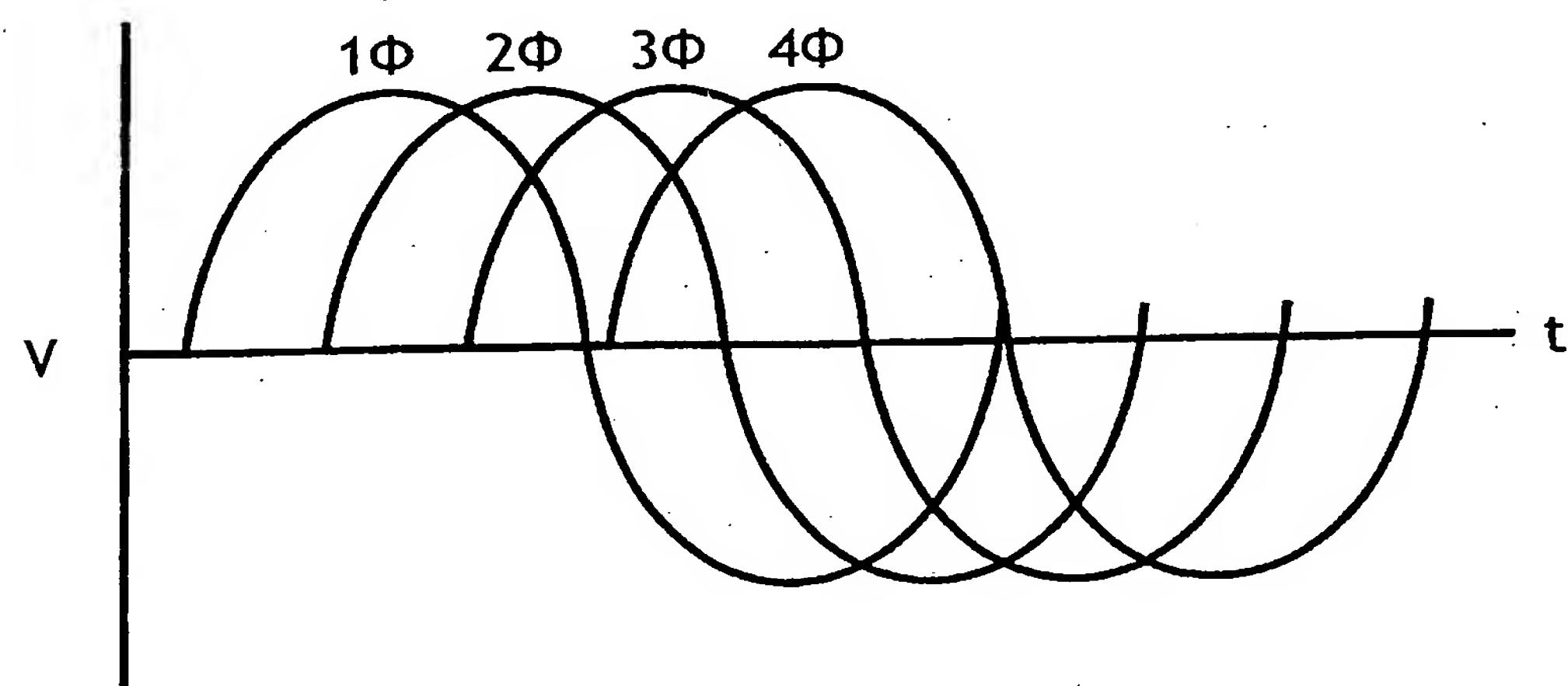
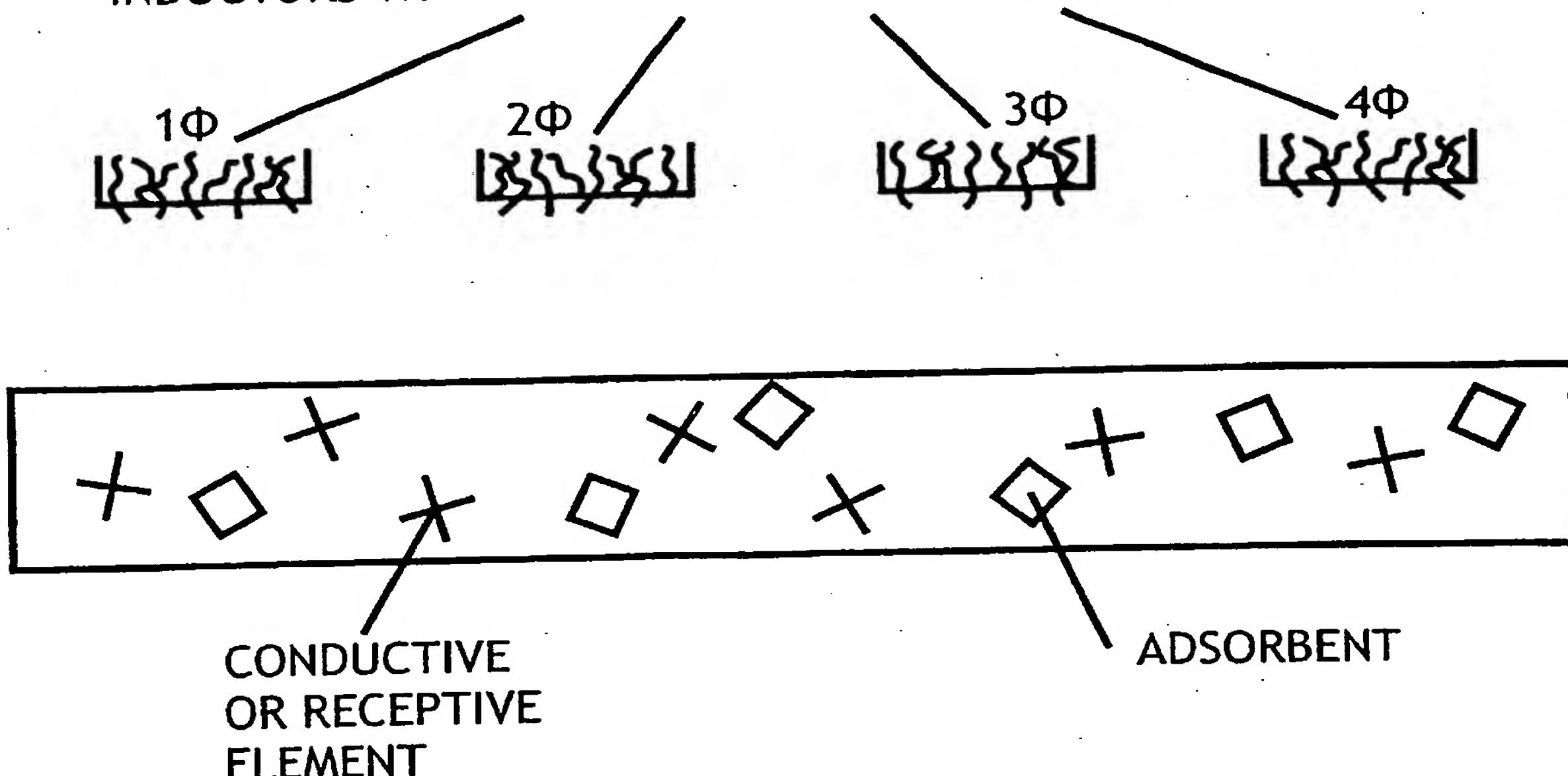
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**FIGURE 19**

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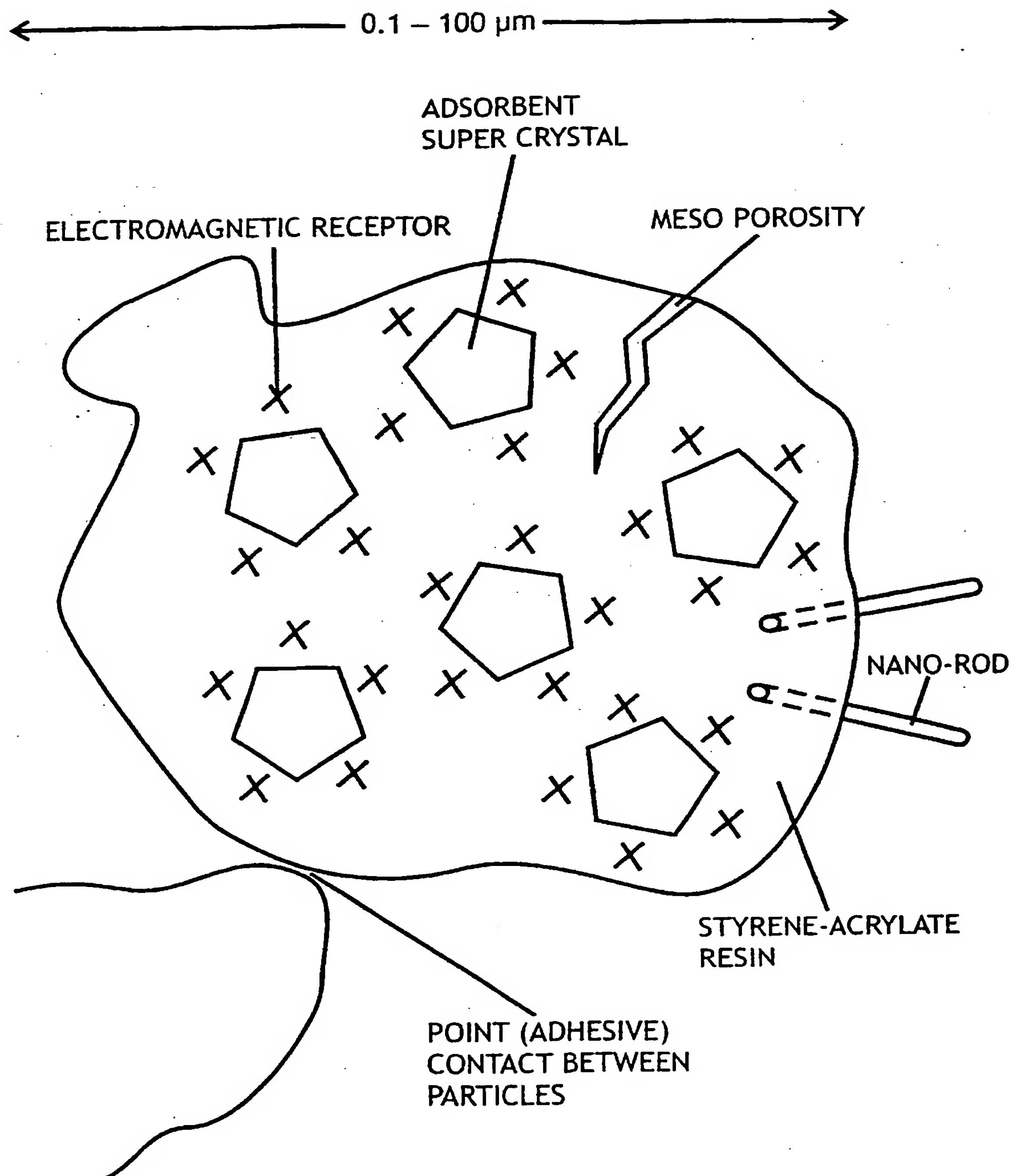
**FIGURE 20**

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**FIGURE 21****INDUCTORS WITH CONDUCTIVE HIGH ASPECT RATIO ELEMENT**

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FIGURE 22



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